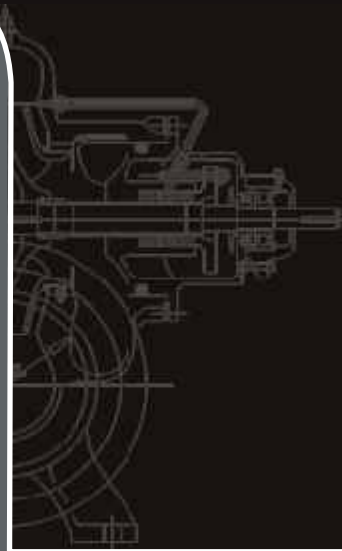


*Kirloskar*

Enriching Lives



Kirloskar

Pumps and Valves  
for Steel Industry



KIRLOSKAR BROTHERS LIMITED



## KBL Partnering Steel Industries

Our main strength lies in our specially trained engineers who are capable of rendering tailor made solutions to fluid handling problems in steel industries. Presenting innovative solutions with our definite approach backed by sustained research efforts, which have been continuing for years. We have pioneered the fluid handling systems and with decades of experience we are offering a wide range of pumps for varied applications in steel industries. Our company is a front - runner in achieving technological breakthroughs by developing trend - setting pumps.

We ensure customer satisfaction through our dedicated personal in regional offices located all over the country and well supported by a large dealership network.

Committed to fluid handling solutions for over a century Kirloskar - the name you can trust for centuries to come.

### Kirloskar Pumps

- Have a wide range of pumps catering to varied applications
- Have the lowest life cycle costs
- Maintain optimum efficiency at varying load conditions
- Are energy efficient





# Kirloskar pumps for steel industries



## Total Fluid Handling Solutions from KBL

KBL, an ISO 9001 and ISO 14001 company, has established largest pump manufacturing infrastructure and well laid process controls and integrated systems. The state of the art computer aided pump testing laboratories, foundries to produce special alloy steel castings for pump components to international standards, metallurgical controls and material analysis utilizing destructive and non - destructive material test facilities are important features of the manufacturing set-up.



# KBL Product Showcase



## End Suction Pumps

Type - CE

- Range : Capacity up to 660 m<sup>3</sup>/hr  
Head up to 100 meters  
Temperature (-) 10°C to 140°C  
Delivery size up to 125 mm
- Features : Single Stage, back pull out type as per DIN 24256 and ISO 2858



## Process Pumps

Type - KPD/ KPDS

- Range : Capacity up to 750 m<sup>3</sup>/hr  
Head up to 150 meters  
Temperature (-) 50°C to 350°C  
Delivery size up to 200 mm
- Features : Single Stage, back pull out type as per DIN 24256 and ISO 2858 Center line mounting, semi-open impeller and variety of materials and mechanical seals to suit the different applications.
- (KPDS - Vertical extended shaft submerged pumps)



## Solids Handling Pumps

Type - SHM / SHS / SHL

- Range : Capacity up to 13,000 m<sup>3</sup>/hr  
Head up to 90 meters  
Temperature (-) 10°C to 140°C  
Delivery size up to 900 mm
- Features : Single Stage, back pull out type with non clog type impeller to handle solids up to 105 mm



# Kirloskar pumps for steel industries



## Submersible Sewage Pumps

Type - NS

Range : Capacity up to 1,800 m<sup>3</sup>/hr

Head up to 90 meters

Delivery size up to 250 mm

Features : Single Stage, bottom suction submersible pumps with Non Clog Impellers. Maximum permissible solid size up to 300mm available with special arrangement for cutting and tearing of solids



## Multistage Pumps

Type - RKB

Range : Capacity up to 850 m<sup>3</sup>/hr

Head up to 850 meters

Temperature up to 140°C

Delivery size up to 250 mm

Features : Multistage, Vertical Delivery, Horizontal Pump with diffuser type Casing. Available in Vertical execution.



## Horizontal Axially Split Casing Single Stage Pumps

Type - UP/ UPL/ UPH/ UP(T)

Range : Capacity up to 20,000 m<sup>3</sup>/hr

Head up to 160 meters

Temperature up to 90°C

Delivery size up to 1,100 mm

Features : Single Stage, Horizontal Axially Split, Single Suction or Double Suction

# KBL Product Showcase



## Horizontal Axially Split Casing Pumps

Type - SCT/ SCT Extended

Range : Capacity up to 4,500 m<sup>3</sup>/hr

Head up to 330 meters

Temperature 90°C

Delivery size up to 350 mm

Features : Horizontal Axially Split, Single Stage Pump with good suction performance (low NPSH requirement)



## Horizontal Axially Split Casing Two Stage Pumps

Type - DSM/ DSM (T)

Range : Capacity up to 470 m<sup>3</sup>/hr

Head up to 180 meters

Temperature up to 90°C

Delivery size up to 150 mm

Features : Horizontal Axially Split, Two Stage, Single Suction Pump with good Suction performance (low NPSH requirement)



## Vertical Turbine Pumps

Type - BHR/ BHQ/ BHM/ BHMa/ BHA

Range : Capacity up to 40,000m<sup>3</sup>/hr

Head up to 240 meters

Temperature (-) 10°C to 90°C

Delivery size from 150mm to 2,200 mm

Features : Dry pit/ wet pit arrangement available, Low submergence, Gland packed / Mechanical seal, Radial / Axial / Mixed Flow Type

# Kirloskar pumps for steel industries



## Cast Iron Reflux Valves

- Range : Size 50 to 1200 mm (2" to 48")  
Conforming to IS 5312, Part I & II, PN 0.6, 1.0 & 1.6  
Temperature up to 60°C
- Features : Bypass and dashpot arrangement  
Low pressure loss



## Butterfly Valves

- Range : Size 50 to 2500 mm (2" to 100")  
Pressure up to PN 1.6  
Conforming to BS 5155/IS 13095/AWWA-C-504
- Features : Eccentric seat geometry results in less wear and tear  
thereby longer life



## Cast Steel Gate Valves

- Range : Class 150 Size 2" (50 mm) to 24" (600 mm)  
Class 300 / 600 Size 2" (50 mm) to 12" (300 mm)  
Conforming to BS 1414/API 600  
Temperature up to 475°C
- Features : Rigid and Sturdy Design  
Low pressure loss



## Cast Steel Check Valves

- Range : Class 150 Size 2" (50 mm) to 18" (450 mm)  
Class 600 Size 3" (80 mm) to 8" (200 mm)  
Conforming to BS 1868
- Features : Rigid and sturdy design  
Low pressure loss

## Corrosion Protection

Application	Types of coating
Corrosion protection	Polyglass Series
(Vessels, tanks and pipelines)	Plasmet Series Corroglass Series
Abrasion resistance (Chutes, Pumps)	Plasmet-HTE
Efficiency Improvement Coating and Energy Saving (Pumps)	Fluiglide





## KBL - Products in Steel Plants (Reference List)

### India

Bhilai Steel Plant, Bhilai, Madhya Pradesh  
Bhoruka Seel Ltd; Bangalore, Karnataka  
Bokaro Steel plant, Bokaro, Orissa  
Brindavan Alloys Ltd; Bangalore, Karnataka  
Durgapur Steel Plant, Durgapur, West Bengal  
Ferro Alloys Corporation; Nagpur, Maharashtra  
Firth India Steel, Nagpur, Maharashtra  
Indian Iron and Steel Company Ltd., Burnpur, Orissa  
Indian Seamless Steel and Alloys Ltd; Jejuri, Maharashtra  
Jindal Vijaynagar Steel Ltd., Toranagallu, Karnataka  
Kap Steel Ltd; Bangalore, Karnataka  
Krishna Steel Ltd; Thane, Maharashtra  
Mahindra Ugine Steel Company Ltd; Khopoli, Maharashtra  
Marathwada Alloy Steel, Aurangabad, Maharashtra  
Mukund Iron and Steel Co Ltd; Kalwe, Maharashtra  
Nav Bharat Ferro Alloys Ltd; Khammam, Andhra Pradesh  
Neelachal Ispat Nigam Ltd.,  
Nippon Dentre Ispat Nigam Ltd.,  
Rourkela Steel Plant, Rourkela, Orissa  
Salem Steel Plant, Salem, Tamil Nadu  
Sanghvi Steels, Taloja, Maharashtra  
SJK Steels, Anantpur, Andhra Pradesh  
Tata Iron and Steel Company Ltd., Jamshedpur, Jharkhand  
Visakhapatnam Steel Plant, Vizag, Andhra Pradesh  
Visvesvaraya Iron and Steel Ltd., Bhadravati, Karnataka  
Zenith Steel Ltd; Khopoli, Maharashtra

### Overseas

Abul Khair Steel Products Ltd., Bangladesh  
Baku Steel Company Ltd., Azerbaijan  
Bangladesh Steel Rolling Mills, Bangladesh  
Carribean Ispat, Trinidad  
Chemon Ispat Ltd., Bangladesh  
P.T.Indo Ispat Ltd., Indonesia  
Steelmakers Gulf Incorporation, Dubai

# Pumps Application Chart

Application	Types of Pumps	Types of Valves
Blast Furnace Cooling Water System Cold Water Hot Water	Horizontal Split Case Pumps UP/ SCT/ DSM	All Types
Gas Cleaning Plant Cold Water  Slag Granulation Plant  Drainage	Vertical Submerged Pumps KPDS  Solid Handling Non-Clog Pumps (Horizontal/ Vertical) SHM/ SHL/ SHS Vertical Submerged Pumps KPDS Vertical Submersible Pumps NS	Gate Valves
Sinter Plant Hot Water  Process Water   Circulation  Sump	Multistage Pumps RKB Horizontal Split Case Pumps UP/ SCT/ DSM End Suction Pumps DB/ KPD/ CE Horizontal Split Case Pumps UP/ SCT/ DSM Vertical Submerged Pumps KPDS	All Types
Pig Casting Machine Cooling System Spray Water	Vertical Submerged Pumps KPDS Vertical Submersible Pumps NS	All Types
Raw Water Treatment Plant Treated Water  Makeup Water  Drinking Water	End Suction Pumps DB/ KPD/ CE	All Types

# Kirloskar pumps for steel industries

Application	Types of Pumps	Types of Valves
Captive Power Plant Condensate Extraction Cooling Water Boiler Feed  Axially Cooling Water	Horizontal Split Case Pumps UP/ SCT/ DSM  Multistage Pumps RKB Horizontal Split Case Pumps UP/ SCT/ DSM	Check Valves Butterfly Valves  Globe Valves
Steel Making Section Supply Water for Furnaces  Furnace Cooling Hot/ Cold Rolling Mill Circulating Water Soft Water for Ladle Furnace Water for Transformer Cooling	Horizontal Split Case Pumps UP/ SCT/ DSM	Gate Valves Butterfly Valves Non Return Valve
Continuous Casting Machine Soft Water for Cooling Circulating Water Scale Flushing	Horizontal Split Case Pumps UP/ SCT/ DSM	All Types
Sewage Treatment Plant Sewage  Solid Handling	Vertical Submersible Pumps NS  Solid Handling Non-Clog Pumps (Horizontal/ Vertical) SHM/ SHL/ SHS	Sluice Valve  Globe Valve Check Valve
Water Supply     Fire Fighting	Vertical Turbine Pumps BHR/ BHA/ BHM/ BHQ  Horizontal Split Case Pumps UP/ SCT/ DSM  End Suction Pumps DB/ KPD/ CE	All Types



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Chennai : Tel: 044-2823 6546/ 7, 2823 6548  
Jaipur : Tel: 0141-236 1434, 236 3765  
Kochi : Tel: 484-220 6651/ 2/ 3  
Kolkata : Tel: 033-2282 6885/ 7634/ 0891  
Lucknow : Tel: 0522-222 6494/ 0937  
Mumbai : Tel: 022-2528 9328/ 330  
Nagpur : Tel: 0712-223 4275  
New Delhi : Tel: 011-2334 1484/ 7233, 2336 1485  
Pune : Tel: 020-2444 0770  
Ranchi : Tel: 0651-2308 184  
Secunderabad : Tel: 040-2789 4595/ 6/ 7

As we are constantly endeavouring to improve the performance of our products/equipment we reserve the right to make alterations from time to time and as such our products/equipment may differ from that detailed in this publication. For latest information you may get in touch with our Regional Sales Offices.



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## Enriching Lives

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